

Appl. No. 10/600,290
Amdt. dated July 6, 2006
Reply to Office action of April 17, 2006

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LISTING OF CLAIMS READABLE ON ELECTED SPECIES

13. (currently amended) A process for delivering a naked ~~nucleic acid~~ non-expressed double strand RNA to an extravascular cell of a mammal, comprising: a) injecting the naked ~~nucleic acid~~ non-expressed double strand RNA into a blood vessel lumen, *in vivo*; b) increasing the propensity for macromolecules to move through vessel walls and enter the extravascular space; and, c) delivering the naked ~~nucleic acid~~ non-expressed double strand RNA to the extravascular cell outside of the blood vessel.
19. (currently amended) The process of claim [[15]] 13 wherein the double strand ~~RNA~~ nucleic acid consists of a nucleic acid sequence comprising ~~10 to 50~~ 120 or fewer bases.
20. (currently amended) The process of claim [[19]] 13 wherein the double strand ~~RNA~~ nucleic acid consists of a nucleic acid sequence comprising ~~18 to 25~~ more than 120 bases.
23. (currently amended) The process of claim 13 wherein the propensity for macromolecules to move through vessel walls and enter the extravascular space is increased by inserting papaverine into the vessel with the naked ~~nucleic acid~~ non-expressed double strand RNA.
24. (currently amended) The process of claim 13 wherein delivery of the naked nucleic acid non-expressed double strand RNA results in decreased expression of a gene.
25. (previously presented) The process of claim 24 wherein the gene is an endogenous gene.
26. (previously presented) The process of claim 24 wherein the gene is a viral gene.
27. (previously presented) The process of claim 13 wherein the vessel consists of a tail vein.
28. (previously presented) The process of claim 13 wherein the parenchymal cell is selected from the group consisting of liver cells, spleen cells, heart cells, kidney cells, prostate cells, skin cells, testis cells, skeletal muscle cells, fat cells, bladder cells, brain cells, pancreas cells, thymus cells, and lung cells.
29. (currently amended) A process for delivering a naked ~~nucleic acid~~ non-expressed double strand RNA to an extravascular cell of a mammal, comprising: injecting the naked nucleic acid into a tail vein, increasing pressure inside the tail vein and delivering the naked nucleic acid to an extravascular cell not within the tail.

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30. (currently amended) The process of claim 29 wherein the parenchymal cell is a cell selected from the group consisting of liver cells, spleen cells, heart cells, kidney cells, prostate cells, skin cells, testis cells, skeletal muscle cells, fat cells, bladder cells, brain cells, pancreas cells, thymus cells, and lung cells.
31. (currently amended) The process of claim 29 wherein the ~~nucleic acid~~ double strand RNA comprises sequence that is similar to an expressed gene sequence.

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COMPLETE LISTING OF THE CLAIMS

In the claims, please withdraw claims 15, 16 and 18 and amend claims 13, 19, 20, 23, 24, and 29-31 as follows:

1-12. (canceled)

13. (currently amended) A process for delivering a naked ~~nucleic acid~~ non-expressed double strand RNA to an extravascular cell of a mammal, comprising: a) injecting the naked ~~nucleic acid~~ non-expressed double strand RNA into a blood vessel lumen, *in vivo*; b) increasing the propensity for macromolecules to move through vessel walls and enter the extravascular space; and, c) delivering the naked ~~nucleic acid~~ non-expressed double strand RNA to the extravascular cell outside of the blood vessel.
14. (withdrawn) The process of claim 13 wherein the nucleic acid consists of single strand nucleic acid.
15. (withdrawn) The process of claim 13 wherein the nucleic acid consists of double strand nucleic acid.
16. (withdrawn) The process of claim 13 wherein the nucleic acid consists of RNA.
17. (withdrawn) The process of claim 16 wherein the RNA consists of single strand RNA.
18. (withdrawn) The process of claim 16 wherein the RNA consists of double strand RNA.
19. (currently amended) The process of claim ~~[[15]]~~ 13 wherein the double strand ~~RNA~~ nucleic acid consists of a nucleic acid sequence comprising ~~10 to 50~~ 120 or fewer bases.
20. (currently amended) The process of claim ~~[[19]]~~ 13 wherein the double strand ~~RNA~~ nucleic acid consists of a nucleic acid sequence comprising ~~18 to 25~~ more than 120 bases.
21. (withdrawn) The process of claim 18 wherein the double strand nucleic acid comprises a sequence that is similar to a gene sequence that is expressed.
22. (withdrawn) The process of claim 13 wherein the nucleic acid consists of anti-sense nucleic acid.
23. (currently amended) The process of claim 13 wherein the propensity for macromolecules to move through vessel walls and enter the extravascular space is increased by inserting papaverine into the vessel with the naked ~~nucleic acid~~ non-expressed double strand RNA.

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24. (currently amended) The process of claim 13 wherein delivery of the ~~naked nucleic acid~~ non-expressed double strand RNA results in decreased expression of a gene.
 25. (previously presented) The process of claim 24 wherein the gene is an endogenous gene.
 26. (previously presented) The process of claim 24 wherein the gene is a viral gene.
 27. (previously presented) The process of claim 13 wherein the vessel consists of a tail vein.
 28. (previously presented) The process of claim 13 wherein the parenchymal cell is selected from the group consisting of liver cells, spleen cells, heart cells, kidney cells, prostate cells, skin cells, testis cells, skeletal muscle cells, fat cells, bladder cells, brain cells, pancreas cells, thymus cells, and lung cells.
 29. (currently amended) A process for delivering a naked ~~nucleic acid~~ non-expressed double strand RNA to an extravascular cell of a mammal, comprising: injecting the naked nucleic acid into a tail vein, increasing pressure inside the tail vein and delivering the naked nucleic acid to an extravascular cell not within the tail.
 30. (currently amended) The process of claim 29 wherein the parenchymal cell is a cell selected from the group consisting of liver cells, spleen cells, heart cells, kidney cells, prostate cells, skin cells, testis cells, skeletal muscle cells, fat cells, bladder cells, brain cells, pancreas cells, thymus cells, and lung cells.
 31. (currently amended) The process of claim 29 wherein the ~~nucleic acid~~ double strand RNA comprises sequence that is similar to an expressed gene sequence.